

# Curriculum Vitae

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### **Education:**

1983-1989: BSc Cell Biology  
University of Glasgow, Scotland  
1989-1993: Ph.D Cell Physiology  
University College London, England

### **Career:**

1993-1994: Royal Society post-doctoral fellowship, Biologie Cellulaire Marine, Station Zoologique, Villefranche-sur-Mer, FRANCE 06230  
1994-1995: EMBO post-doctoral fellowship, Biologie Cellulaire Marine, Station Zoologique, Villefranche-sur-Mer, FRANCE 06230  
1995-1996: Human Mobility EEC post-doctoral scientist with C. Sardet, Biologie Cellulaire Marine, Station Zoologique, Villefranche-sur-Mer, FRANCE 06230  
Aug-Sept. 1996: Human Frontiers short-term fellowship with Dr F. S. Fay, Biomedical Imaging Group, UMASS Medical Center, Massachusetts, USA.  
1996-2002: Lecturer (Assistant Professor)  
Dept. of Physiological Sciences, The Medical School, Framlington Place, University of Newcastle, Newcastle upon Tyne, England NE2 4HH  
2002-2003 : Reader in Reproductive Cell Physiology (Associate Professor)  
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2003-present CR1, CNRS, UMR7009, Biologie du développement, Villefranche-sur-Mer, 06230 France

### **Former Ph.D Students**

Michael Carroll	1998 - 2002
Hayden Homer	2001 - 2004

### **Former Masters Students**

Rachel Lowther	1998 - 1999
Cedric Duval	2003 - 2004

## **Publications:**

1. Swann, K., McCulloh, D.H., **McDougall, A.**, Chambers, E.L. and Whitaker, M. (1992). Sperm-induced currents in sea urchin eggs injected with EGTA and neomycin. *Dev. Biol.* 151, 552-563.
2. Whalley, T., **McDougall, A.**, Crossley, I., Swann, K. and Whitaker, M. (1992). Internal calcium release and activation of sea urchin eggs by cGMP are independent of the phosphoinositidase signalling pathway. *Mol. Biol. of the Cell.* 3, 373-383.
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9. Roegiers, F., **McDougall, A.** and Sardet, C. (1995). The sperm entry point defines the orientation of the calcium-induced contraction wave that directs the first phase of cytoplasmic reorganisation in the ascidian egg. *Development.* 121, 3457-3466.
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12. Levasseur, M. and **McDougall, A.** (2000). Sperm-induced calcium oscillations at fertilisation in ascidians are controlled by cyclin B1-dependent kinase activity. *Development* 127, 631-641.
13. **McDougall, A.**, Levasseur, M., O'Sullivan, A. J. and Jones, K. T. (2000). Cell cycle-dependent repetitive calcium waves induced by a cytosolic sperm extract in mature ascidian eggs mimic those observed at fertilization. *J. Cell Sci.* 11, 3453-3462.
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15. Hyslop, L. A., Carroll, M., Nixon, V. L., **McDougall, A.** and Jones, K. T. (2001). Simultaneous measurement of intracellular nitric oxide and free calcium levels in chordate eggs demonstrates that nitric oxide has no role at fertilization. *Dev. Biol.* 234, 216-230.
16. **McDougall, A.**, Shearer, J. and Whitaker, M. (2001). The initiation and propagation of the fertilization wave in sea urchin eggs. *Biol. Cell,* 92, 205-214.
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### **References:**

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